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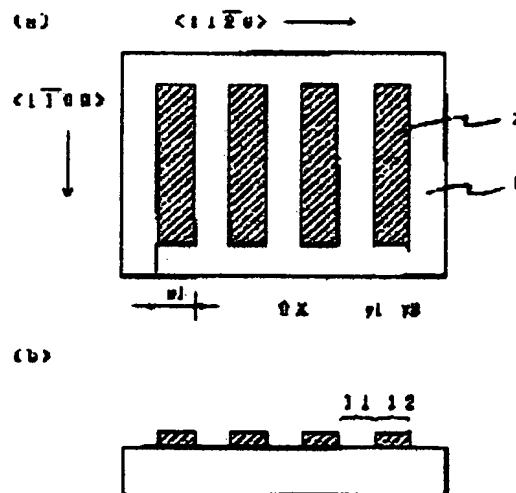
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54) BOARD FOR GALLIUM NITRIDE CRYSTAL GROWTH, AND ITS APPLICATION

57)Abstract:

PROBLEM TO BE SOLVED: To provide a substrate for GaN crystal growth with which a high quality GaN substrate which is thick and moreover does not contain defects such as a transposition, etc., can be obtained, and the manufacture of a GaN semiconductor element using it.

SOLUTION: A mask region 12 covered with a mask layer 2 and nonmask region 11, where the base substrate face is exposed, are made at the face of a base substrate 1. A material where crystals will not grow substantially from its own surface is used for the mask layer. In the case of making the upper part of the mask region into low transposition, the mask region is made in such form that at least the outline includes two straight parallel lines y1 and y2 which extend in the direction $\langle 1-100 \rangle$. Furthermore, a width w1 of two parallel straight lines is made smaller than the width of a GaN semiconductor element, and moreover is made larger than the width of the active part of the element. In this case for, dividing the GaN semiconductor element into separate pieces, it is preferable to make use of a nonmask region.



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